



Object position detector.

Patent number: DE69324067D
Publication date: 1999-04-29
Inventor: MILLER ROBERT J (US); BISSET STEPHEN J (US)
Applicant: SYNAPTICS INC (US)
Classification:
- **International:** G06K11/16
- **European:**
Application number: DE19936024067 19930607
Priority number(s): US19920895934 19920608

Also published as:

 EP0574213 (A1)
 EP0574213 (B1)

Abstract not available for DE69324067D

Abstract of correspondent: **EP0574213**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance between horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by analog circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. The profile of position may also be integrated to provide Z-axis (pressure) information.

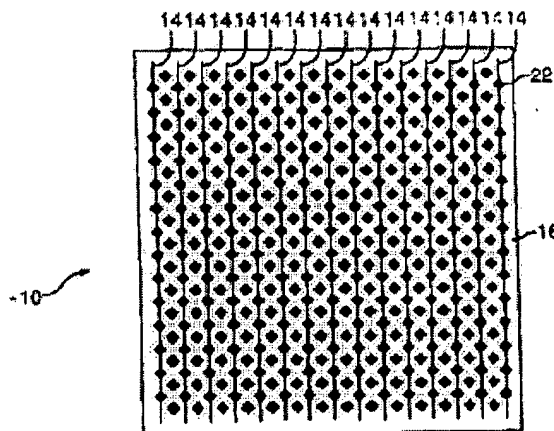


FIG. 1a